

Henny C Van Der Mei

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

388 papers	18,063 citations	70 h-index	113 g-index
395 ext. papers	20,246 ext. citations	6.9 avg, IF	6.78 L-index

#	Paper	IF	Citations
388	Physico-chemistry of initial microbial adhesive interactions--its mechanisms and methods for study. <i>FEMS Microbiology Reviews</i> , 1999 , 23, 179-230	15.1	722
387	Biomaterial-associated infection: locating the finish line in the race for the surface. <i>Science Translational Medicine</i> , 2012 , 4, 153rv10	17.5	455
386	In vitro and in vivo antimicrobial activity of covalently coupled quaternary ammonium silane coatings on silicone rubber. <i>Biomaterials</i> , 2002 , 23, 1417-23	15.6	395
385	Microbiota restoration: natural and supplemented recovery of human microbial communities. <i>Nature Reviews Microbiology</i> , 2011 , 9, 27-38	22.2	365
384	How a fungus escapes the water to grow into the air. <i>Current Biology</i> , 1999 , 9, 85-8	6.3	278
383	Infection of orthopedic implants and the use of antibiotic-loaded bone cements. A review. <i>Acta Orthopaedica</i> , 2001 , 72, 557-71		272
382	Transmission of infection by flexible gastrointestinal endoscopy and bronchoscopy. <i>Clinical Microbiology Reviews</i> , 2013 , 26, 231-54	34	268
381	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. <i>Chemical Society Reviews</i> , 2019 , 48, 428-446	58.5	262
380	A Shape-Adaptive, Antibacterial-Coating of Immobilized Quaternary-Ammonium Compounds Tethered on Hyperbranched Polyurea and its Mechanism of Action. <i>Advanced Functional Materials</i> , 2014 , 24, 346-355	15.6	219
379	Forces involved in bacterial adhesion to hydrophilic and hydrophobic surfaces. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 3122-3133	2.9	218
378	Microbial adhesion in flow displacement systems. <i>Clinical Microbiology Reviews</i> , 2006 , 19, 127-41	34	216
377	Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. <i>ACS Nano</i> , 2016 , 10, 4779-89	16.7	211
376	Microbial adhesion to poly(ethylene oxide) brushes: influence of polymer chain length and temperature. <i>Langmuir</i> , 2004 , 20, 10949-55	4	206
375	Microbial biofilm growth vs. tissue integration: "the race for the surface" experimentally studied. <i>Acta Biomaterialia</i> , 2009 , 5, 1399-404	10.8	200
374	Role of extracellular DNA in initial bacterial adhesion and surface aggregation. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 3405-8	4.8	198
373	Bacterial adhesion and growth on a polymer brush-coating. <i>Biomaterials</i> , 2008 , 29, 4117-21	15.6	178
372	Analysis of bacterial detachment from substratum surfaces by the passage of air-liquid interfaces. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2531-7	4.8	173

371	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 234-45	15.1	165
370	Detection of biomaterial-associated infections in orthopaedic joint implants. <i>Clinical Orthopaedics and Related Research</i> , 2003 , 261-8	2.2	165
369	Physicochemical and functional characterization of a biosurfactant produced by <i>Lactococcus lactis</i> 53. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006 , 49, 79-86	6	155
368	Residual gentamicin-release from antibiotic-loaded polymethylmethacrylate beads after 5 years of implantation. <i>Biomaterials</i> , 2003 , 24, 1829-31	15.6	151
367	Purification and characterization of a surface-binding protein from <i>Lactobacillus fermentum</i> RC-14 that inhibits adhesion of <i>Enterococcus faecalis</i> 1131. <i>FEMS Microbiology Letters</i> , 2000 , 190, 177-80	2.9	145
366	The phenomenon of infection with abdominal wall reconstruction. <i>Biomaterials</i> , 2007 , 28, 2314-27	15.6	142
365	<i>Streptococcus mutans</i> competence-stimulating peptide inhibits <i>Candida albicans</i> hypha formation. <i>Eukaryotic Cell</i> , 2009 , 8, 1658-64		137
364	Initial adhesion and surface growth of <i>Staphylococcus epidermidis</i> and <i>Pseudomonas aeruginosa</i> on biomedical polymers. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 208-14		137
363	How do bacteria know they are on a surface and regulate their response to an adhering state?. <i>PLoS Pathogens</i> , 2012 , 8, e1002440	7.6	132
362	<i>Staphylococcus aureus</i> biofilm formation on different gentamicin-loaded polymethylmethacrylate bone cements. <i>Biomaterials</i> , 2001 , 22, 1607-11	15.6	131
361	Influence of surface roughness on streptococcal adhesion forces to composite resins. <i>Dental Materials</i> , 2011 , 27, 770-8	5.7	130
360	Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. <i>Advances in Colloid and Interface Science</i> , 2018 , 261, 1-14	14.3	129
359	Magnetic targeting of surface-modified superparamagnetic iron oxide nanoparticles yields antibacterial efficacy against biofilms of gentamicin-resistant staphylococci. <i>Acta Biomaterialia</i> , 2012 , 8, 2047-55	10.8	128
358	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. <i>Advanced Functional Materials</i> , 2013 , 23, 2843-2849	15.6	125
357	Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12118-12129	9.5	124
356	Inhibition of adhesion of yeasts and bacteria by poly(ethylene oxide)-brushes on glass in a parallel plate flow chamber. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 3239-3246	2.9	123
355	Soft tissue integration versus early biofilm formation on different dental implant materials. <i>Dental Materials</i> , 2014 , 30, 716-27	5.7	122
354	Effect of cinnamon oil on <i>icaA</i> expression and biofilm formation by <i>Staphylococcus epidermidis</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 6850-5	4.8	109

353	Gentamicin release from polymethylmethacrylate bone cements and Staphylococcus aureus biofilm formation. <i>Acta Orthopaedica</i> , 2000 , 71, 625-9		109
352	Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. <i>Expert Opinion on Drug Delivery</i> , 2013 , 10, 341-51	8	106
351	Pluronic-lysozyme conjugates as anti-adhesive and antibacterial bifunctional polymers for surface coating. <i>Biomaterials</i> , 2011 , 32, 6333-41	15.6	106
350	Specific molecular recognition and nonspecific contributions to bacterial interaction forces. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2559-64	4.8	105
349	Influence of biosurfactants from probiotic bacteria on formation of biofilms on voice prostheses. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4408-10	4.8	105
348	Synthesis and characterization of surface-grafted polyacrylamide brushes and their inhibition of microbial adhesion. <i>Langmuir</i> , 2007 , 23, 5120-6	4	103
347	Isolation and partial characterization of a biosurfactant produced by Streptococcus thermophilus A. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006 , 53, 105-12	6	102
346	Comparison of atomic force microscopy interaction forces between bacteria and silicon nitride substrata for three commonly used immobilization methods. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5441-6	4.8	101
345	Influence of extracellular polymeric substances on deposition and redeposition of Pseudomonas aeruginosa to surfaces. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 1161-1169	2.9	99
344	Impact of 3D Hierarchical Nanostructures on the Antibacterial Efficacy of a Bacteria-Triggered Self-Defensive Antibiotic Coating. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20304-13	9.5	98
343	Antiadhesive polymer brush coating functionalized with antimicrobial and RGD peptides to reduce biofilm formation and enhance tissue integration. <i>Biomacromolecules</i> , 2014 , 15, 2019-26	6.9	91
342	Electric current-induced detachment of Staphylococcus epidermidis biofilms from surgical stainless steel. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6871-4	4.8	88
341	Eradication of Multidrug-Resistant Staphylococcal Infections by Light-Activatable Micellar Nanocarriers in a Murine Model. <i>Advanced Functional Materials</i> , 2017 , 27, 1701974	15.6	87
340	Effects of quaternary ammonium silane coatings on mixed fungal and bacterial biofilms on tracheoesophageal shunt prostheses. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 3673-7	4.8	87
339	The effect of mixing on gentamicin release from polymethylmethacrylate bone cements. <i>Acta Orthopaedica</i> , 2003 , 74, 670-6		87
338	Adsorption of pluronic F-127 on surfaces with different hydrophobicities probed by quartz crystal microbalance with dissipation. <i>Langmuir</i> , 2009 , 25, 6245-9	4	85
337	3D-Printable Antimicrobial Composite Resins. <i>Advanced Functional Materials</i> , 2015 , 25, 6756-6767	15.6	83
336	The inhibition of the adhesion of clinically isolated bacterial strains on multi-component cross-linked poly(ethylene glycol)-based polymer coatings. <i>Biomaterials</i> , 2007 , 28, 4105-12	15.6	83

335	Bacterial cell surface damage due to centrifugal compaction. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 120-5	4.8	82
334	Electric field induced desorption of bacteria from a conditioning film covered substratum. <i>Biotechnology and Bioengineering</i> , 2001 , 76, 395-9	4.9	82
333	Physicochemical and biochemical characterization of biosurfactants released by Lactobacillus strains. <i>Colloids and Surfaces B: Biointerfaces</i> , 1996 , 8, 51-61	6	82
332	Bacterial factors influencing adhesion of Pseudomonas aeruginosa strains to a poly(ethylene oxide) brush. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 2673-2682	2.9	81
331	Direct probing by atomic force microscopy of the cell surface softness of a fibrillated and nonfibrillated oral streptococcal strain. <i>Biophysical Journal</i> , 2000 , 78, 2668-74	2.9	80
330	Interfacial re-arrangement in initial microbial adhesion to surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2010 , 15, 510-517	7.6	79
329	Influence of culture heterogeneity in cell surface charge on adhesion and biofilm formation by Enterococcus faecalis. <i>Journal of Bacteriology</i> , 2006 , 188, 2421-6	3.5	79
328	Influence of fluid shear and microbubbles on bacterial detachment from a surface. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 3668-73	4.8	77
327	Orthodontic treatment with fixed appliances and biofilm formation--a potential public health threat?. <i>Clinical Oral Investigations</i> , 2014 , 18, 1711-8	4.2	74
326	Probing molecular interactions and mechanical properties of microbial cell surfaces by atomic force microscopy. <i>Ultramicroscopy</i> , 2001 , 86, 113-20	3.1	74
325	Effects of cell surface damage on surface properties and adhesion of Pseudomonas aeruginosa. <i>Journal of Microbiological Methods</i> , 2001 , 45, 95-101	2.8	74
324	In vivo evaluation of bacterial infection involving morphologically different surgical meshes. <i>Annals of Surgery</i> , 2010 , 251, 133-7	7.8	73
323	Adhesion forces and coaggregation between vaginal staphylococci and lactobacilli. <i>PLoS ONE</i> , 2012 , 7, e36917	3.7	73
322	Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. <i>Biomaterials</i> , 2013 , 34, 9237-43	15.6	71
321	Role of eDNA on the adhesion forces between Streptococcus mutans and substratum surfaces: influence of ionic strength and substratum hydrophobicity. <i>Langmuir</i> , 2011 , 27, 10113-8	4	71
320	Interfacial self-assembly of a Schizophyllum commune hydrophobin into an insoluble amphipathic protein membrane depends on surface hydrophobicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995 , 5, 189-195	6	71
319	Soft-particle analysis of the electrophoretic mobility of a fibrillated and non-fibrillated oral streptococcal strain: Streptococcus salivarius. <i>Biophysical Chemistry</i> , 1998 , 74, 251-5	3.5	70
318	Hydrophobic recovery of repeatedly plasma-treated silicone rubber. Part 1. Storage in air. <i>Journal of Adhesion Science and Technology</i> , 1995 , 9, 1263-1278	2	70

317	Bond-strengthening in staphylococcal adhesion to hydrophilic and hydrophobic surfaces using atomic force microscopy. <i>Langmuir</i> , 2008 , 24, 12990-4	4	69
316	In vitro methods for the evaluation of antimicrobial surface designs. <i>Acta Biomaterialia</i> , 2018 , 70, 12-24	10.8	68
315	A distinguishable role of eDNA in the viscoelastic relaxation of biofilms. <i>MBio</i> , 2013 , 4, e00497-13	7.8	68
314	Analysis of the interfacial properties of fibrillated and nonfibrillated oral streptococcal strains from electrophoretic mobility and titration measurements: evidence for the shortcomings of the classical soft-particle approach. <i>Langmuir</i> , 2005 , 21, 11268-82	4	67
313	Multiple linear regression analysis of bacterial deposition to polyurethane coatings after conditioning film formation in the marine environment. <i>Microbiology (United Kingdom)</i> , 2004 , 150, 1779-1784	7.8	67
312	Role of lactobacillus cell surface hydrophobicity as probed by AFM in adhesion to surfaces at low and high ionic strength. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 41, 33-41	6	66
311	Self-defensive antibiotic-loaded layer-by-layer coatings: Imaging of localized bacterial acidification and pH-triggering of antibiotic release. <i>Acta Biomaterialia</i> , 2017 , 61, 66-74	10.8	65
310	The effect of water, ascorbic acid, and cranberry derived supplementation on human urine and uropathogen adhesion to silicone rubber. <i>Canadian Journal of Microbiology</i> , 1999 , 45, 691-4	3.2	65
309	Statistical analysis of long- and short-range forces involved in bacterial adhesion to substratum surfaces as measured using atomic force microscopy. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5065-70	4.8	64
308	Inhibition of initial adhesion of uropathogenic <i>Enterococcus faecalis</i> to solid substrata by an adsorbed biosurfactant layer from <i>Lactobacillus acidophilus</i> . <i>Urology</i> , 1997 , 49, 790-4	1.6	64
307	Comparison of the microbial composition of voice prosthesis biofilms from patients requiring frequent versus infrequent replacement. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2002 , 111, 200-3	2.1	63
306	Methylobacterium and its role in health care-associated infection. <i>Journal of Clinical Microbiology</i> , 2014 , 52, 1317-21	9.7	62
305	Probing colloid-substratum contact stiffness by acoustic sensing in a liquid phase. <i>Analytical Chemistry</i> , 2012 , 84, 4504-12	7.8	62
304	Prevention of pin tract infection in external stainless steel fixator frames using electric current in a goat model. <i>Biomaterials</i> , 2007 , 28, 2122-6	15.6	62
303	Copal bone cement is more effective in preventing biofilm formation than Palacos R-G. <i>Clinical Orthopaedics and Related Research</i> , 2008 , 466, 1492-8	2.2	62
302	Polyacrylamide brush coatings preventing microbial adhesion to silicone rubber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 64, 297-301	6	62
301	Plasticizers increase adhesion of the detritogenic fungus <i>Aureobasidium pullulans</i> to polyvinyl chloride. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 3575-81	4.8	61
300	Bacterial strains isolated from different niches can exhibit different patterns of adhesion to substrata. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 3758-60	4.8	60

299	Infection resistance of degradable versus non-degradable biomaterials: an assessment of the potential mechanisms. <i>Biomaterials</i> , 2013 , 34, 8013-7	15.6	59
298	Positively charged biomaterials exert antimicrobial effects on gram-negative bacilli in rats. <i>Biomaterials</i> , 2003 , 24, 2707-10	15.6	59
297	Length-Scale Mediated Differential Adhesion of Mammalian Cells and Microbes. <i>Advanced Functional Materials</i> , 2011 , 21, 3916-3923	15.6	58
296	Determination of the shear force at the balance between bacterial attachment and detachment in weak-adherence systems, using a flow displacement chamber. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 916-9	4.8	58
295	DNA-mediated bacterial aggregation is dictated by acidBase interactions. <i>Soft Matter</i> , 2011 , 7, 2927	3.6	57
294	A surface-eroding antibiotic delivery system based on poly-(trimethylene carbonate). <i>Biomaterials</i> , 2009 , 30, 4738-42	15.6	57
293	Nanoscale cell wall deformation impacts long-range bacterial adhesion forces on surfaces. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 637-43	4.8	56
292	Growth of Fibroblasts and Endothelial Cells on Wettability Gradient Surfaces. <i>Journal of Colloid and Interface Science</i> , 1997 , 188, 209-217	9.3	56
291	Lipid-Based Antimicrobial Delivery-Systems for the Treatment of Bacterial Infections. <i>Frontiers in Chemistry</i> , 2019 , 7, 872	5	55
290	Influence of cell surface appendages on the bacterium-substratum interface measured real-time using QCM-D. <i>Langmuir</i> , 2009 , 25, 1627-32	4	55
289	... or not to treat?. <i>Nature Medicine</i> , 1999 , 5, 358-9	50.5	55
288	Current state of craniofacial prosthetic rehabilitation. <i>International Journal of Prosthodontics</i> , 2013 , 26, 57-67	1.9	54
287	Hydrophobic recovery of repeatedly plasma-treated silicone rubber. Part 2. A comparison of the hydrophobic recovery in air, water, or liquid nitrogen. <i>Journal of Adhesion Science and Technology</i> , 1996 , 10, 351-359	2	54
286	Atomic force microscopic corroboration of bond aging for adhesion of <i>Streptococcus thermophilus</i> to solid substrata. <i>Journal of Colloid and Interface Science</i> , 2004 , 278, 251-4	9.3	54
285	Bacterial deposition to fluoridated and non-fluoridated polyurethane coatings with different elastic modulus and surface tension in a parallel plate and a stagnation point flow chamber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 32, 179-190	6	54
284	Models for studying initial adhesion and surface growth in biofilm formation on surfaces. <i>Methods in Enzymology</i> , 1999 , 310, 523-34	1.7	53
283	Biosurfactants produced by <i>Lactobacillus</i> . <i>Methods in Enzymology</i> , 1999 , 310, 426-33	1.7	53
282	A quantitative method to study co-adhesion of microorganisms in a parallel plate flow chamber: basic principles of the analysis. <i>Journal of Microbiological Methods</i> , 1994 , 20, 289-305	2.8	53

281	The effect of dissolved organic carbon on bacterial adhesion to conditioning films adsorbed on glass from natural seawater collected during different seasons. <i>Biofouling</i> , 2003 , 19, 391-7	3.3	52
280	Nanocarriers with conjugated antimicrobials to eradicate pathogenic biofilms evaluated in murine in vivo and human ex vivo infection models. <i>Acta Biomaterialia</i> , 2018 , 79, 331-343	10.8	52
279	Antimicrobial effects of an NO-releasing poly(ethylene vinylacetate) coating on soft-tissue implants in vitro and in a murine model. <i>Acta Biomaterialia</i> , 2009 , 5, 1905-10	10.8	51
278	Biofilm formation on surface characterized micro-implants for skeletal anchorage in orthodontics. <i>Biomaterials</i> , 2007 , 28, 2032-40	15.6	51
277	Bond strengthening in oral bacterial adhesion to salivary conditioning films. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5511-5	4.8	50
276	Electrophoretic mobility distributions of single-strain microbial populations. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 491-4	4.8	50
275	Biofilms in chronic diabetic foot ulcers--a study of 2 cases. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011 , 82, 383-5	4.3	49
274	Influence of a chitosan on oral bacterial adhesion and growth in vitro. <i>European Journal of Oral Sciences</i> , 2008 , 116, 493-5	2.3	48
273	The electrophoretic softness of the surface of Staphylococcus epidermidis cells grown in a liquid medium and on a solid agar. <i>Microbiology (United Kingdom)</i> , 2001 , 147, 757-762	2.9	48
272	Bacterial deposition in a parallel plate and a stagnation point flow chamber: microbial adhesion mechanisms depend on the mass transport conditions. <i>Microbiology (United Kingdom)</i> , 2002 , 148, 597-603 ⁹	2.9	48
271	Novel analysis of bacterium-substratum bond maturation measured using a quartz crystal microbalance. <i>Langmuir</i> , 2010 , 26, 11113-7	4	47
270	The potential for bio-optical imaging of biomaterial-associated infection in vivo. <i>Biomaterials</i> , 2010 , 31, 1984-95	15.6	47
269	In vitro and in vivo comparisons of staphylococcal biofilm formation on a cross-linked poly(ethylene glycol)-based polymer coating. <i>Acta Biomaterialia</i> , 2010 , 6, 1119-24	10.8	47
268	Comparison of methods to evaluate bacterial contact-killing materials. <i>Acta Biomaterialia</i> , 2017 , 59, 139-148	14.8	46
267	Mobile and immobile adhesion of staphylococcal strains to hydrophilic and hydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2009 , 331, 60-4	9.3	46
266	Detachment of polystyrene particles from collector surfaces by surface tension forces induced by air-bubble passage through a parallel plate flow chamber. <i>Journal of Adhesion Science and Technology</i> , 1997 , 11, 957-969	2	46
265	Bacterial interactions with nanostructured surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 38, 170-189	7.6	46
264	The combination of ultrasound with antibiotics released from bone cement decreases the viability of planktonic and biofilm bacteria: an in vitro study with clinical strains. <i>Journal of Antimicrobial Chemotherapy</i> , 2006 , 58, 1287-90	5.1	45

263	Influence of Adhesion Force on icaA and cidA Gene Expression and Production of Matrix Components in Staphylococcus aureus Biofilms. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3369-78	4.8	44
262	Real time noninvasive monitoring of contaminating bacteria in a soft tissue implant infection model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 88, 123-9	3.5	44
261	Adhesion of yeasts and bacteria to fluoro-alkylsiloxane layers chemisorbed on silicone rubber. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998 , 10, 179-190	6	44
260	Dynamic cell surface hydrophobicity of Lactobacillus strains with and without surface layer proteins. <i>Journal of Bacteriology</i> , 2004 , 186, 6647-50	3.5	44
259	On Relations between Microscopic and Macroscopic Physicochemical Properties of Bacterial Cell Surfaces: An AFM Study on Streptococcus mitis Strains. <i>Langmuir</i> , 2003 , 19, 2372-2377	4	44
258	Oral bacterial adhesion forces to biomaterial surfaces constituting the bracket-adhesive-enamel junction in orthodontic treatment. <i>European Journal of Oral Sciences</i> , 2009 , 117, 419-26	2.3	43
257	Resistance to a polyquaternium-1 lens care solution and isoelectric points of Pseudomonas aeruginosa strains. <i>Journal of Antimicrobial Chemotherapy</i> , 2006 , 57, 764-6	5.1	43
256	Influence of shear on microbial adhesion to PEO-brushes and glass by convective-diffusion and sedimentation in a parallel plate flow chamber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 46, 1-6	6	43
255	Inhibition of uropathogenic biofilm growth on silicone rubber in human urine by lactobacilli--a teleologic approach. <i>World Journal of Urology</i> , 2000 , 18, 422-6	4	43
254	Molecular surface characterization of oral streptococci by Fourier transform infrared spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1989 , 991, 395-8	4	43
253	Small-molecule-hosting nanocomposite films with multiple bacteria-triggered responses. <i>NPG Asia Materials</i> , 2014 , 6, e121-e121	10.3	42
252	Acoustic sensing of the bacterium-substratum interface using QCM-D and the influence of extracellular polymeric substances. <i>Journal of Colloid and Interface Science</i> , 2011 , 357, 135-8	9.3	42
251	Kinetics of Interfacial Tension Changes during Protein Adsorption from Sessile Droplets on FEP/teflon. <i>Journal of Colloid and Interface Science</i> , 1996 , 179, 57-65	9.3	42
250	Physicochemical Surface Characteristics of Urogenital and Poultry Lactobacilli. <i>Journal of Colloid and Interface Science</i> , 1993 , 156, 319-324	9.3	42
249	Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. <i>FEMS Microbiology Reviews</i> , 2018 , 42, 259-272	15.1	41
248	Staphylococcal Adhesion, Detachment and Transmission on Nanopillared Si Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30430-30439	9.5	41
247	Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. <i>Small</i> , 2019 , 15, e1902313	11	41
246	Chemical Signals and Mechanosensing in Bacterial Responses to Their Environment. <i>PLoS Pathogens</i> , 2015 , 11, e1005057	7.6	41

245	Bacterial adhesion forces with substratum surfaces and the susceptibility of biofilms to antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4961-4	5.9	40
244	Adhesion of coagulase-negative staphylococci grouped according to physico-chemical surface properties. <i>Microbiology (United Kingdom)</i> , 1997 , 143 (Pt 12), 3861-3870	2.9	40
243	Relations between macroscopic and microscopic adhesion of Streptococcus mitis strains to surfaces. <i>Microbiology (United Kingdom)</i> , 2004 , 150, 1015-1022	2.9	39
242	Stress relaxation analysis facilitates a quantitative approach towards antimicrobial penetration into biofilms. <i>PLoS ONE</i> , 2013 , 8, e63750	3.7	39
241	Simultaneous interaction of bacteria and tissue cells with photocatalytically activated, anodized titanium surfaces. <i>Biomaterials</i> , 2014 , 35, 2580-7	15.6	38
240	Force microscopic and thermodynamic analysis of the adhesion between Pseudomonas aeruginosa and Candida albicans. <i>Soft Matter</i> , 2012 , 8, 6454	3.6	38
239	Staphylococcus aureus-fibronectin interactions with and without fibronectin-binding proteins and their role in adhesion and desorption. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 7522-8	4.8	38
238	In vitro interactions between bacteria, osteoblast-like cells and macrophages in the pathogenesis of biomaterial-associated infections. <i>PLoS ONE</i> , 2011 , 6, e24827	3.7	37
237	The risk of biomaterial-associated infection after revision surgery due to an experimental primary implant infection. <i>Biofouling</i> , 2010 , 26, 761-7	3.3	37
236	Detachment of colloidal particles from collector surfaces with different electrostatic charge and hydrophobicity by attachment to air bubbles in a parallel plate flow chamber. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4423-4427	3.6	37
235	Inhibiting Bacterial Adhesion by Mechanically Modulated Microgel Coatings. <i>Biomacromolecules</i> , 2019 , 20, 243-253	6.9	37
234	Survival of adhering staphylococci during exposure to a quaternary ammonium compound evaluated by using atomic force microscopy imaging. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 5010-7	5.9	36
233	Intraoperative contamination influences wound discharge and periprosthetic infection. <i>Clinical Orthopaedics and Related Research</i> , 2006 , 452, 236-41	2.2	36
232	Role of structure and glycosylation of adsorbed protein films in biolubrication. <i>PLoS ONE</i> , 2012 , 7, e42600	3.7	35
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